

Investigations in the Field of Quinones. IV.
Synthesis of Substituted Naphthofurans, by A. N.
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CTS 74/Nov 55

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Some Peculiarities of Hydrodynamic Lubrication, by
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Sept./Oct. 1952, pp 1-4

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T 11/3/5/233, OT/233
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Scientific - Engineering

Friction Resistance and Load Capacity of a Gliding Head of Finite Width, by W. Frossel, 26 pp.

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SLA 57-1869

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AEC Tr-4970

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pp 179-180.

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Tr No 11/3/5/433
OT/1025

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Scientific - Engineering

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Behavior of Lubricating Oil Viscosity at High-Shearing Speeds, by W. Frossel, Göttingen, 7 pp.
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GERMAN, per, Forschung, Vol XIV, No 3, May/Jun 1953,
pp 82-88.

Navy Tr 921/BuShips 543, 544

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SLA 59-651 8411
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Hydrodynamically Lubricated Sliding Bearing, by
Wilhelm Frossel. UNCLASSIFIED

GERMAN, per, Stal und Eisen, Vol LXXI, No 3, 1 Feb
1951.

*Navy Tr 469/BuShips 436-120

Sci - Engineering - Metals 11/1/51

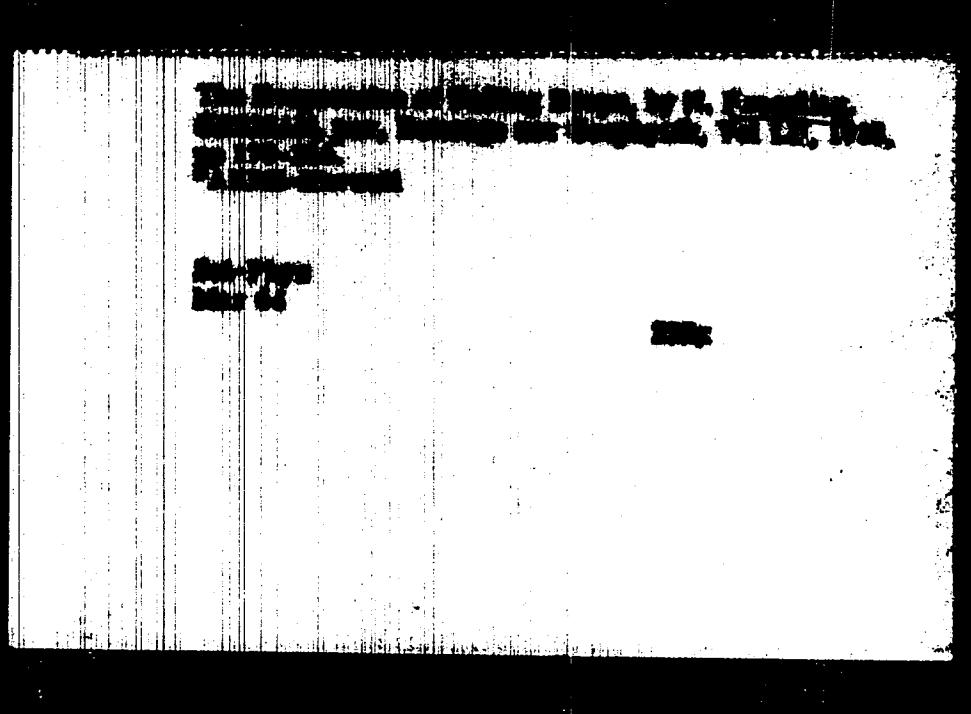
Call # 57-23-3

Sep 1951 CTS
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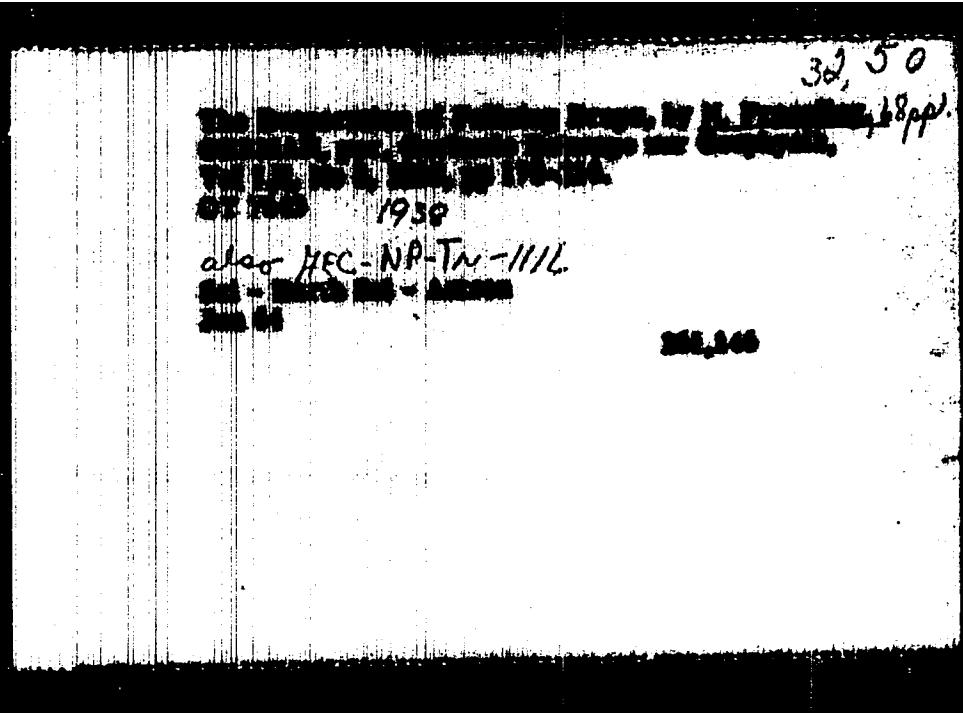
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Evaporation, Heat Transfer, and Velocity Distribution
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Handlingar, Vol LI, No 4, 1940.

RACA TH 1432

Sci - Phys

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Evaporation, Heat Transfer, and Velocity Distribution
in Two-Dimensional and Rotationally Symmetrical
Laminar Boundary-Layer Flow, by Miles Froessling,
37 pp.⁰

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Sci - Physics

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Copolymers of Styrene With Maleic Acid Derivatives, by
A. Ya. Drinberg, B. M. Fundyler, G. N. Gorelik, A. M.
Frost, 6 pp.

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pp 1348-1353.

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Preparation and Investigation of Styrene-Methacrylic Acid Copolymers, by A. Ya Drinberg, B. M. Fundyler, A. M. Frost, 6 pp.

RUSSIAN, per, Zhur Prik Khim, Vol XXXI, No 7,
pp. 1030-1036.

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Sci - Chem
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Preparation and Investigation of Styrene -
Methyl Acrylate Copolymers, by A. Ya, Drinberg,
R. M. Fundylar, A. M. Frost 6 pp.

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1958, pp 771-777.

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Frost, A. V.
FUNCTION OF CLAYS IN FORMATION OF OIL IN
THE EARTH'S CRUST. [1961] 8p. 34 refs.
Order from OTS or SLA \$1.10

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[Condensed] trans. of Usp[ekhi] Khim[ii] (USSR) 1945,
v. 14, no. 6, p. 501-509.

DESCRIPTORS: *Clays, *Oils, Earth, Hydrocarbons,
Petroleum, Geology.

62-10831

I. Frost, A. V.

209090

Office of Technical Services

(Earth Sciences--Geology. TT, v. 7, no. 11)

Frost, A. V.

CONTENT OF CYCLOHEXANES IN OIL AS A
MEASURE OF THE TEMPERATURE OF FORMA-
TION OF THE OIL. [BRI] Sp. 20 refs.
Order from OTS or SLA \$1.10 62-10813

Trans. of Neftegaznoe Khozyaistvo (USSR) 1946 [v. 24]
no. 3/4, p. 36-39.

DESCRIPTORS: *Oils, *Cyclohexanes, Temperature.

62-10813

I. Frost, A. V.

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(Materials--Fuels, TT, v. 7, no. 9)

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Frost, A. V.
IMPROVEMENT OF OCTANE RATING OF GASOLINE
BY ISOMERIZATION. I. EQUILIBRIA IN ISOMERIZA-
TION OF PARAFFINS AND OF CYCLOHEXANE TO
METHYL CYCLOPENTANE. [1961] 8p. 24 refs.
Order from OTS or SLA \$1.10

61-16663

Trans. of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1942, no. 10, p. 3-10.

DESCRIPTORS: *Gasoline, Molecular isomerism,
Thermodynamics, Octanes, Hydrocarbons, Chemical
equilibrium, Cyclohexanes, Cyclopentanes, Methyl
radicals.

(Materials--Fuels, 1942, v. 6, no. 6)

61-16663

I. Frost, A. V.
II. Title: Equilibria...

Frost, A. V.
THEORY OF THERMAL REACTIONS IN CRACKING.
[1961] 17p. 4 refs.
Order from OTS or SLA \$1.60

61-18124

Trans. of mono. Trudy Sessii Akademii Nauk SSSR po
Organicheskoi Khimii (Transactions of the Organic
Chemistry Session of the Academy of Sciences of the
USSR) Dec 36, Moscow/Leningrad, 1939, p. 99-112.

DESCRIPTORS: Hydrocarbons, Decomposition,
Ethanes, Methanes, Ethylenes, Naphthalenes, Ben-
zenes, Thermodynamics.

61-18124

- I. Frost, A. V.
- II. Title: Transactions ...
- III. Title: Organic ...

(Unannounced)

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61-16926

Frost, A. V.
CATALYTIC AND CONTACT METHODS OF DESULFURIZATION OF OIL PRODUCTS. [1961] 6p. 40 refs.
Order from OTS or SLA \$1.10 61-16926

Condensed trans. of Uspekhi Khimii (USSR) 1943,
v. 12, p. 209-215.

DESCRIPTORS: *Oils, *Sulfur, Separation, *Catalysts,
*Hydrogenation, Decomposition, Gasoline, Kerosene,
Impurities.

A review of methods of desulfurization is given, including hydrogenation, thermal decomposition of sulfur compounds, bauxite treatment, desulfurization with phosphoric acid on coke, treatment with oxides of aluminum or zinc, clay refining, copper salt process and treatment with iron ore. Concerning the last mentioned method, it is asserted that iron-containing contacts may give a complete desulfurization of oil distillates. (Engineering-Chemical, TT, v. 6, no. 8) (over)

I. Title: Desulfurization
I. Frost, A. V.

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X-Ray Study of the Crystalline Structure of
Violet Phosphorus, by A. V. Frost, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol IXII, 1930,
pp 2235-2241.

SLA/R-2503

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Oxidation of Red Phosphorus at Elevated Temperatures and Pressures I., by I. N. Bushmarin,
M. V. Rulin-kov, A. V. Frost, 15 pp

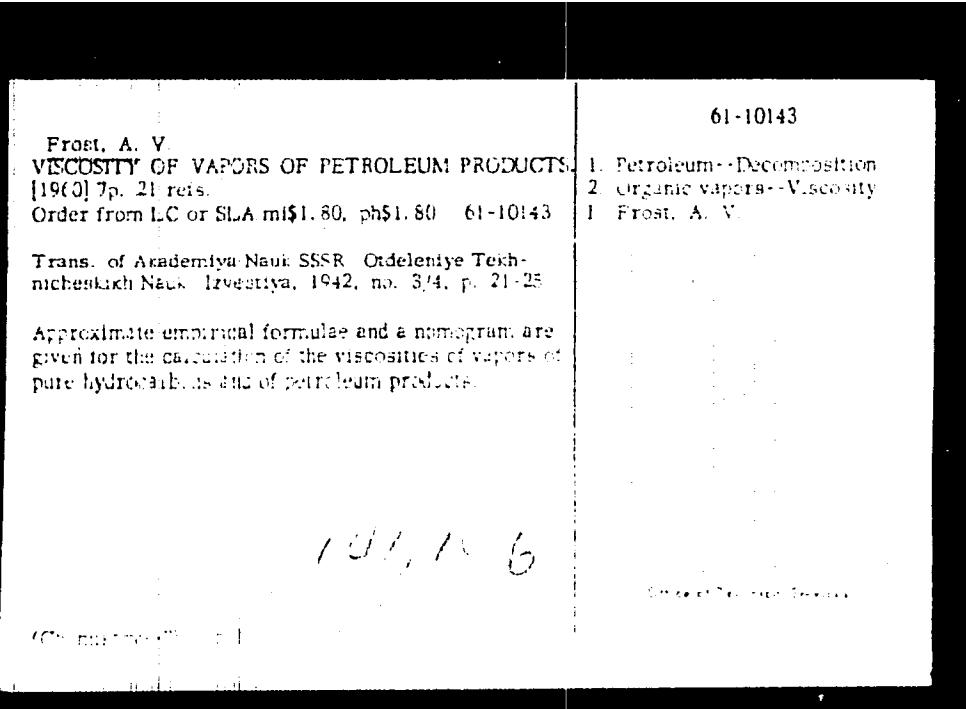
RUSSIAN, per. Zhur Prik Khim. Vol VI. 1933. pp
577-587.

SLA R-2914

Sci

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The Question of Allotropy of Phosphorus, II. The
Rate of Conversion of White Phosphorus into Red
Phosphorus, by A. A. Vvedenskiy, A. V. Frost, 15 pp.

RUSSIAN, ver, Zhur Obshch Khim, Vol I, 1931, pp
917-925.

SLA R-2817

Sci

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Oxidation of Phosphorous Acid at Elevated Temperatures and Pressures. IV, by I. N. Bushuekin, A. V. Frost, 11 pp.

RUSSIAN, per, Zhur Khim Prom, Vol VI, 1933, pp 613-620.

SLA R-3351

Sci

Aug 59

93, 535

The Oxidation of Phosphorous Acid by Water in the
Presence of Gold(III) Metals, by V. A. Vinogradov,
A. V. Frost, p. 9.

RUSSIAN, per, Zhur Obshch Khim, Vol 1, 1931,
pp 1108-1113.

SLA/R-2507

Sci
Apr 59

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Thermodynamics of Reactions of Hydrocarbons, by
A. V. Frost, 28 pp.

RUSSIAN, per, Khim Tverdogo Topliva, Vol IV, 1933,
pp 171-185.

AEC 3050

Sci - Chem

Oct 58

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Structure, Frequencies of Normal Vibrations and
Thermodynamic Functions of CH_3 , CH_2 , CH and C_2 Free
Radicals, by A. N. Gavrich, A. V. Frost, 22pp.

RUSSIAN, pur, Uchenie Zapiski Moskovskogo Gosudarst-
vennogo Univ imeni M. V. Lomonosova, No 164, 1953,
pp 129-143.

NF-1445 CLA 6-95
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Sci - Chemistry
Nov 57

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Chemical Equilibria of Reactions Between Hydrocarbons, II. Constant of Equilibrium of Reaction
 $2C_6H_6$ Goto Reversibly Into $C_6H_5C_6H_5$ Plus H_2 by
A. A. Vvedenskiy, A. V. Prost, 18 pp.

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pp 542-552.

ABC 3326

Sci - Chem

74, 475

Oct 58

B
Oxidation of Phosphine with Oxygen and Air
in the Presence of Hydrogen, by I. N. Bush-
makin, A. A. Vvedenskiy and A. V. Frost, 7
pp.

RUSSIAN, per, Zhur Obshch Khim, Vol II, 1932
pp 415-420.

SLA R-2287

Sci

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Aug 58

IV
Oxidation of Yellow Phosphorus with Water at
Elevated Temperatures and Pressures, by I. N.
Bushmakin, M. V. Ruisakov and A. V. Frost,
23 pp.

RUSSIAN, per, Zhur Prikl Khim, Vol VI, 1933,
pp 588-606.

SLA R-2303

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Reversible Catalytic Conversion of Normal
Butylenes Into Isobutylene, by D. M. Budkowskii,
E. K. Serebryakov, A. V. Frost, 6 pp.

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No 8, 1936, pp 359-362.

SIA Tr R-746

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Sci - Chemistry
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Raman Spectra of the Rotational Isomerism of
1,2 Dihalide Ethanes, by O. L. Aronov, V. M.
Tatevskiy, A. V. Frost

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LX,
No 3, 1948, pp 387-90.

ABC Tr 369

Sci Tr Center TT-178

Scientific - Physics
Mar 51 CTS

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Oxidation of Phosphine with Water Under Pressure, by
I. N. Bushmakin, A. V. Frost, 10 pp.

RUSSIAN, per, Zhur. Fizik. Khim., Vol VI, 1933,
pp 607-612.

AEC-LR-22 1795

11, 068

Scientific - Chemistry

Calculation of the Equilibrium of the Reactions of Chlor-Substituted Ethylene and Ethane, by V. M. Tatevskii, A. V. Frost.

Full translation.

RUSSIAN, per, Vest Moskovskogo Gosudarstvennogo Universiteta, No 3, USSR, 1947, pp 65-82.

AEC Tr 1490

Scientific - Chemistry, gas, ethylene, ethane

Jan 53 CTS/DEX

Rotational Isomerism of 1, 2 Dichloroethane and
1, 2 Dibromomethane in Solutions at Different Tempera-
tures, by O. L. Aronov, V. M. Tatevskiy, A. V. Frost.

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol LX,
No 8, 1948, pp 1343-1345.

AEC Tr 370

Scientific - Physics

Mar 51 CTS

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Aluminum Silicates and the Conversion of Ketones;
by A. Ia. Larin, A. V. Frost.

RUSSIAN, per, ~~ISSN~~ Dok Ak Nauk SSSR, Vol LIV,
No 7, 1948, pp 1297-1300.

Res Info Sv R.587

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(see Gryaznov, V. M.) VOC 576

(see Khayn, S.S.) VOC 588

(see Nikolaev, A. F.) VOC 616

(see Vvedenskiy, A. A.) VOC 631

(see Lapin, Ya. P.) CR LIII, No 9, 46, 801

{ see Antipina, T. V.) CR LIII, No 1, 46, 45

} see Larine, A. Ya.) CR LIV, No 5, 46, 407

A 2767

Rearrangement of Hydrogen in Olefinic Hydrocarbons Over
Aluminosilicate Catalysts, by A. A. Petrov, A. V. Frost.
3 pp.

RUSSIAN, no per, Zhur Obshch Khim, Vol XXII, No 10,
1952, pp 1773-1780.

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Scientific - Chemistry

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Frost, A. V.
CATALYTIC ACTION OF ACTIVATED SILICA-
ALUMINA: ACTION OF ACTIVATED CLAY UPON
NORMAL OCTYL ALCOHOL AND CYCLOHEXANONE.
[1961] 4p. 3 refs.

Order from OTS or SLA \$1.10 61-16656

Trans. of [Akademiya Nauk SSSR]. Comptes Rendus
(Doklady) de l'Academie des Sciences de l'U.R.S.S.,
1942, v. 37, p. 223-225.

DESCRIPTORS: *Alumina-silica catalysts, Catalysis,
*Clays, *Alcohols, Dehydration, *Cyclohexanones,
Chemical effects.

Acid activated clay ignited at 240-290° was found to dehydrate octyl alcohol at 150-180°, but a temperature of 120° was insufficient for this reaction. The dehydration gave 33% octenes, 17% gas and losses and 13% higher olefins. In addition to polymerization, partial hydro-
(Engineering--Chemical, TT, v. 6, no. 9) (over)

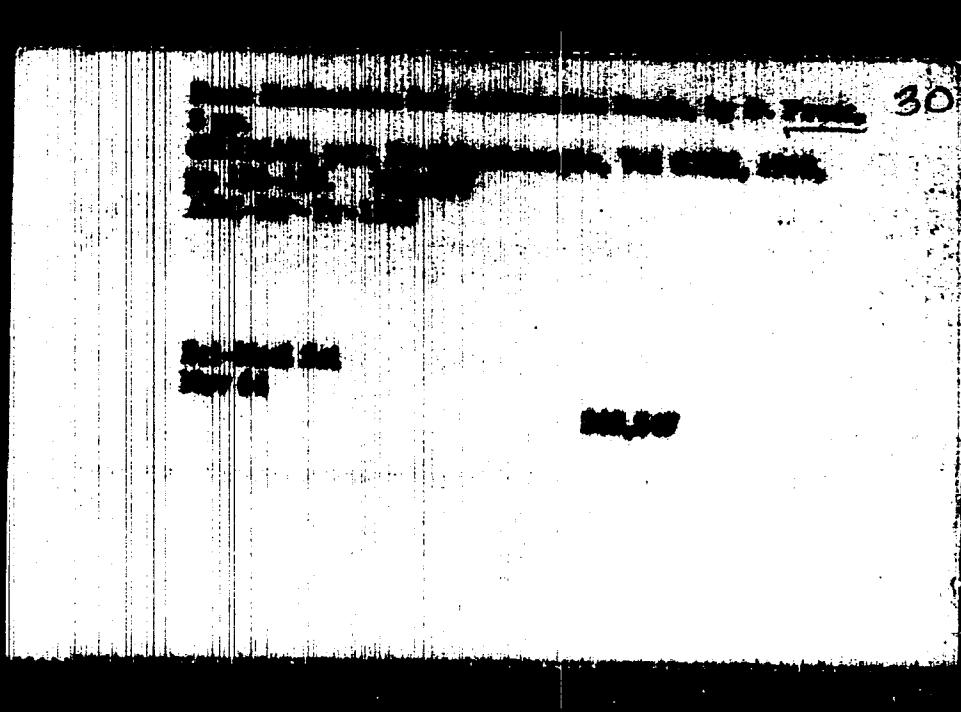
61-16656

I. Frost, A. V.
II. Title: Action...

Office of Technical Services

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Radiation-Warning Device, by D. Frost, 9 pp.

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10 Nov 60
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EXPERIMENT WITH SNOW SHIELD PLANTING ON
SALTFJELLET. [1963] 9p
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TT-63-20660

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I. Saltfjellet
I. Frost, F.

Trans. of Tidsskrift for Skogbruk (Norway) 1951, v. 59,
no. 6, p. 176-185.

DESCRIPTORS: Railroads, Shielding, Ice, *Snow,
*Trees, Plants (Botany), Seeds, *Forestry.

(Biological Sciences--Botany, TT, v. 11, no. 5)

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Curve movement of Triple Crawler Mounted
Vehicle, by L. Frost.
AMM 1964, Vol. 308,
1964, p. 113-141.

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Rapid Homogeneous Deformation of Turbulence in a Gas, by V. A. Frost, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXXIII,
No 4, 1960, pp 773-.

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The Flow of a Supersonic Ideal Gas Past a Flat Plate in the Presence of Volume Heat Release, by I. F. Skanknov, V. Z. Frost, 17 pp.

RUSSIAN, MME bk, Trudy Moskovskogo Tekhnicheskogo Instituta, No 7, Issledovaniya po Matematike i Prilozhennoy Matematike, 1961, pp 110-123. 9678787

FID-TY-62-1049

Sci-Phys
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Instrument for the Analysis of Hydrocarbons
in Gas and Aerosol form by H. Frostling,
P. H. Lindgren, 18 pp.
SWEDISH, rpt Instrument for analys av Kolvaten
i gas- och aerosolform, Föra I Rapport
ALFÖR-F161 77 pp, December 1964.
ACSI J-0300
ID 2214009566

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Sci-Chem
Sept 66

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Miliary Tuberculosis and Tuberculous Meningitis
Treated With Streptomycin (Study of 85 Cases), by
G. Frotali, 4 pp.

GERMAN, per, Ann. Paediatrici, Vol CLXXI, No 5/6,
Nov/Dec 1948, pp 286-290.

SIA 2516

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Jan 58

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Permanent Antisatatic Finishing of Man-Made Fibres, by H. Frotscher.

GERMAN, per, Svf Fachorgan, Vol. 19, No. 3,
1964, pp 188-195
GB/112/TR/480

H. FROTSCHER

Sci -
Aug 67

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Frotscher, H.
PROBLEMS OF PERMANENT ANTISTATIC FINISHES.
May 61 [11]p. 4 refs.
Order from SLA \$1.60

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Trans. of Melland Textilberichte (West Germany) 1960,
v. 41, no. 9, p. 1121-1124.

DESCRIPTORS: *Finishes and Finishing, *Static eliminators, *Fibers (Synthetic), *Cellulose acetates, Static electricity, Cleaning, *Textiles, Clothing.

(Materials--Textiles, TT, v. 10, no. 2)

62-20023
I. Frotscher, H.

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Central Respiratory Disturbances in Cases of Skull
or Brain Trauma, by R. A. Frowein,
GERMAN, per, Fortschr Kiefer Gesichtschir, Vol 11,
No 1, 1966, pp 17-24.

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Sci/EM
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Is There Sufficient Oxygen Supply in the Brain Tissue
Following Severe Brain Trauma?, by R. A. Frowein.
GERMAN, per, ZBL Neurochir, Vol 25, No 1/2, 1964,
pp 39-60.

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Sci/BQH
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Epidemiological Significance of Active Detection of
Dysentery Patients, by V. I. Frovlov, 5 pp.

RSS,
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Vol XXVIII, No 10, 1957, pp 105-108.

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Sci - Med
Dec 58

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(DC 2558)

Pocket Gamma-Radiation Dosimeter, by M.
Ardenne, G. Jeger, B. Roggenbuk, G. Proylkh,
3 pp.

RUSSIAN, monograph, Issledovaniya v Oblasti
Dozimetriii Ioniziruyushchikh Izlucheniyy, 1957,
pp 112-114.

JFRS-L-1743-D

Sci - Med
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Official Case Gas-Distributing Devices for
Inhalations with Flammable Liquors, by E. S.
Prayman, E. N. Galkin, F. I. Lammes, 8pp
REF ID: A6514, Patent 1 Technological Bulletin 1
Serial No. 7, 1922, No 12, pp 54-56
US 1,274,617
1922-06-1957

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Box - Eng
June 67

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Friböse, A. and Jänech, Paul A.
THE INFLUENCE OF VARIOUS FACTORS ON VISUAL
ACUTY FOR DEPTH (Der Einfluss Verschiedenster
Faktoren auf die Tiefenschärfe). [1961] 16p 12vds
Order from SLA \$1.60 TT-61-14194

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I. Friböse, A.
II. Jänech, P. A.

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Office of Technical Services

Prevention of the Causes and Consequences of
a Criticality Accident-Measures Adopted in
France, by Y. Fruchard, J. N. Lorie.
FRENCH, rpt., CEA Report 3059.
MINSCALE Tr-317 (UDAN)

Y. Fruchard
Sci - Phys
Sept. 67

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Antiferromagnetic Waves in Random
Compounds with Isotropic R.H.S.A.
by M. Prakash, 15 pp.
Received, 10/1, 1963
and Revised, 10/1, 1963,
1963, pp 26-31. DOI: 10.1007/BF01045577

F. Fruend

Sixty Ambulatory Patients Treated with Salvarsan.
Muench. Med. Wochschr., v. 6, 1911 p 302-305
NASA TT F 14618

Feb 75

Fruend, Michael and Vajta, Sophie.
ELECTRON MICROSCOPICAL STUDY OF THE STRUCTURE OF ASPHALT. [1960] [11]p. (11 figs. omitted)
20 refs.

Order from SLA mIS2.40, ph\$3.30 61-10494

Trans. of Erdöl und Kohle (West Germany) 1958, v. 11
[no. 1] p. 13-18.

The colloidal structure of asphalt samples was investigated through electron microscope pictures of metal replicas. Plates were prepared by dissolving an asphalt sample (or, occasionally, melting the asphalt without a solvent), then treating with gold-aluminum vapors to create a replica of the asphalt surface, which is then photographed. [The omitted] figure shows variations in surface structure of asphalt in sol state, in gel state and in transition states. Chemical and rheological data were employed to check the results.
(Author)

(Materials, TT, v. 5, no. 7)

61-10494

1. Asphalt--Structural analysis
 2. Electron microscopy-- Applications
- I. Fruend, M
II. Vajta, S.

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Sources of Shock-Sound, Masses and Analogy
to Explosive Reactions, by F. Fruengel. 5 p.
GERMAN, PER, Zeitschrift fuer Angewandte Physik,
Vol 9, No 3, 1957, pp 145-147.
SIA TT-66-10702

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The Importance of the Position of the Quaternary
Nitrogen Atom in the Molecule of Certain Compounds to
Their Ability to React With True Cholinesterase and
Pseudocholinesterase, by N. K. Fruentov, 6 pp.

RUSSIAN, per, Byul Eksper Biol i Med, Vol XIVIII,
No 12, 1959, pp 55-60.

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(DC-6566)

EMILIO FRUGONI AND THE CUBAN REVOLUTION,
BY EMILIO FRUGONI, L2 PP.

SPANISH, NP, MARCHA, 23 DEC 1961,
PP 16-17.

JPRS 12137

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The Cuban Revolution, by Emilio Frugoni,
(DC-6566)

SPANISH, np, Marcha, 22 Dec 1961.

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Concerning the Causes of Liquefaction of Kaolin,
by W. Czerch, K. Fruhauf, et al. 30 pp.

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THE INFLUENCE OF THE EXCHANGEABLE CATIONS ON THE
RHEOLOGICAL PROPERTIES AND THE GRAIN SIZE
DISTRIBUTION OF KAOLINITE, BY K. FRUHAUF,
W. BURCK, 28 PP.

GERMAN, PER, KOLLOID-ZEITSCHRIFT & ZEITSCHRIFT
FUER POLYMERE, VOL CLXXX, NO 2, 1962, PP 150-160.

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JUL 62

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Kudjipite und Montmorillonite With Anion-exchangeable
Hydrogen Ions, by K. Zupkauf, U. Roemer,
13 pp.

GERMAN, per, Z fuer Anorganische und
Allgemeine Chemie, Vol CCCVII, No 5/4,
Jan 1961, pg 187-201.

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Natl Bu Standards

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Process for the Production of Terephthalic Acid, by A. Bering, H. Fruhbuss and O. Grossinskij, 2 pp.

GERMAN, printed appl 1,000,801. B 38412
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